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Nr.28

19 pages 29 figures

29 July 2008

Scientific Note

Two days in an Oak Woodland in Bingöl Province (East Turkey)

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Fig. 1- Camping place, together with the butterfly *Hipparchia syriaca* on Poplar tree trunk, 25 7 2008
photo M. Kemal (Cesa)

The aim of this excursion was to initiate a faunistical research on the moth fauna of the Province Bingöl, and to give opportunity to our students for their further field experiences. The selected place for camping and studying was the Military Station called "Şeref" at 1530m above sea level, and its environment in Solhan District. In two days 25-26 July 2008 the authors visited three places in Solhan District all day long, and around Kuruca Pass (2025m) in Bingöl district by day only. The first results were satisfactory, and our sincere thanks to the Military Officers are due to their kind collaboration and hospitality at the Station.

As to the lepidopterological results of the excursion, studies by day were influenced negatively due to the drought in the area, especially in this year, and continuous overgrazing. The only observed lycaenids on the flowers of *Centaurea iberica* was *Lycaena (Thersamonia) thersamona* (**Fig. 15**), *Lycaena (Thersamonia) kefersteinii* (**Fig. 16**), and *Quercusia quercus* among the leaves of the *Quercus* trees in the woodland (**Figs. 19, 22**). In the shadows, *Pseudochazara pelopea* (**Fig.18**), *Hipparchia syriaca* (**Figs. 1, 21**), *Coenonympha pamphilus* and *C. saadi* (*Satyridae*) were uncommon. The males of the second generation of *Melitaea didyma* (**Fig.17**) and *M. fascalis* (*Argynnidae*) were seen more frequently. At light trap, *Marumba quercus* (*Sphingidae*) (**Fig.9**) and *Lymantria dispar* (*Lymantriidae*) (**Fig.10**) were frequently observed. Nearly 120 species of the following 23 moth families are recorded (mostly new to Bingöl Province) during this excursion: *Alucitidae*, *Arctiidae*, *Coleophoridae*, *Cosmopterigidae*, *Cossidae*, *Ctenuchidae*, *Drepanidae*, *Gelechiidae*, *Geometridae*, *Lasiocampidae*, *Lecithoceridae*, *Limacodidae*, *Lymantriidae*, *Noctuidae*, *Notodontidae*, *Oecophoridae*, *Pterophoridae*, *Pyralidae*, *Saturniidae*, *Sphingidae*, *Tineidae*, *Tortricidae*, and *Yponomeutidae*. Other insect groups were also observed during the studies.

The faunistical results will be evaluated in separate publications.

Some Images of the Excursion in Solhan District



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Fig. 2– Our camping site at 1530m 25 July 2008 (Cesa)



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Fig. 3- Before the light trap activity. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa)



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Fig. 4- *Phalera bucephaloides* (Notodontidae) at rest on an Oak leaf. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa) - New to Bingöl Province!



Fig. 5— Rest of the *Euproctis melania* (Lymantriidae) in the spider web. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa)



Fig. 6— A female of *Purpuricenus dalmatinus* (Cerambycidae) at rest in late evening on Oak. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa) [This female was captured by M.Kemal and preserved in the collection after determination].



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Fig. 7— Examination the attracted specimens at the light trap. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo A.Koçak (Cesa)



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Fig. 8— Temporary preparation of the captured specimens in the night. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa)

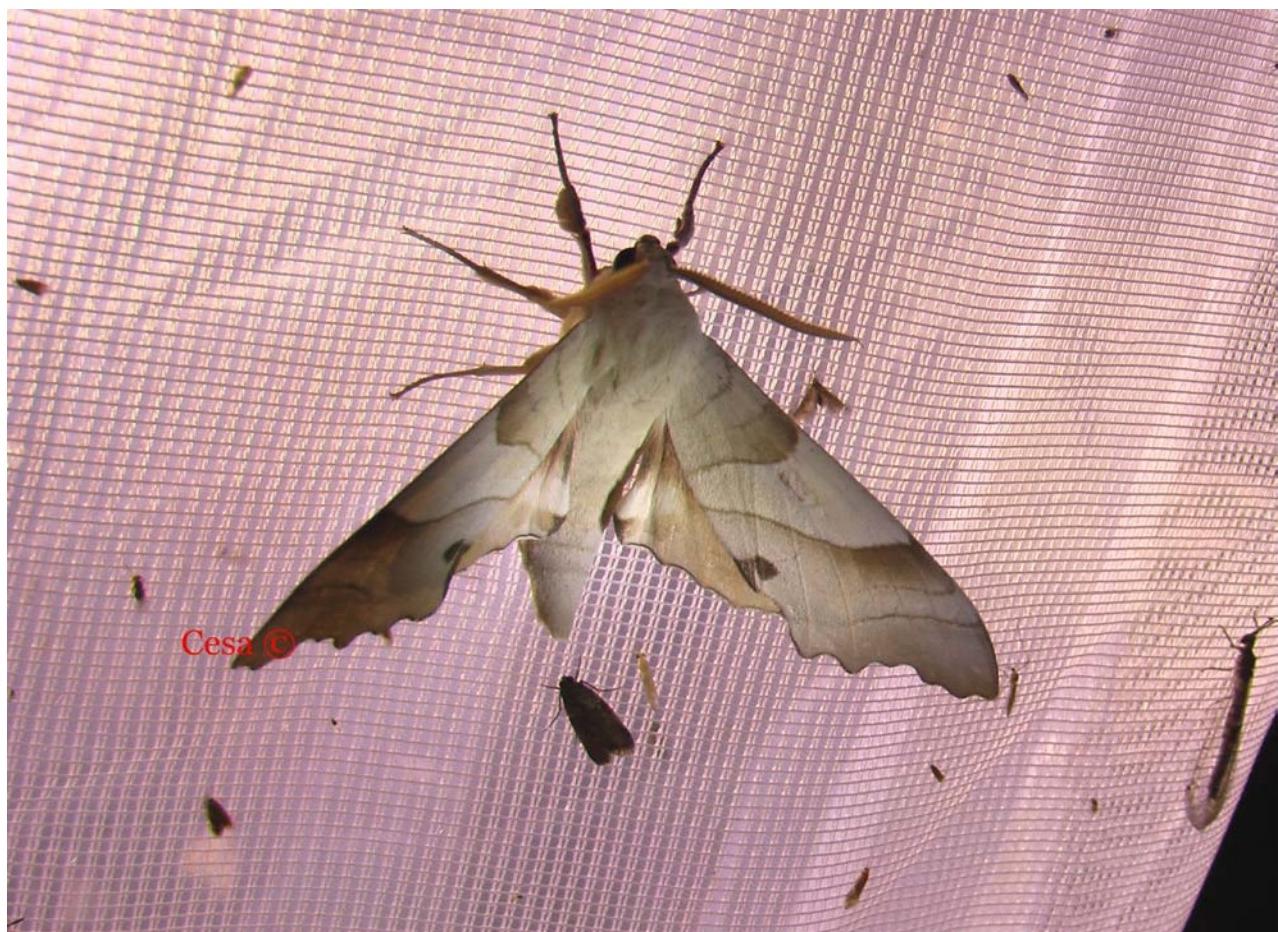


Fig. 9- *Marumba quercus* (Sphingidae) visited frequently during the night. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa)



Fig. 10- *Lymantria dispar* (Lymantriidae), the dominant species attracted by the light in the night. Turkey: Bingöl Prov., Solhan, Şeref Military Station E., 1460m 25.7.2008 photo M.Kemal (Cesa)



Fig. 11— Şeref Yaylaq, 1650m, visited by day. Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 12— Studying at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 13– Studying at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo A.Koçak (Cesa)

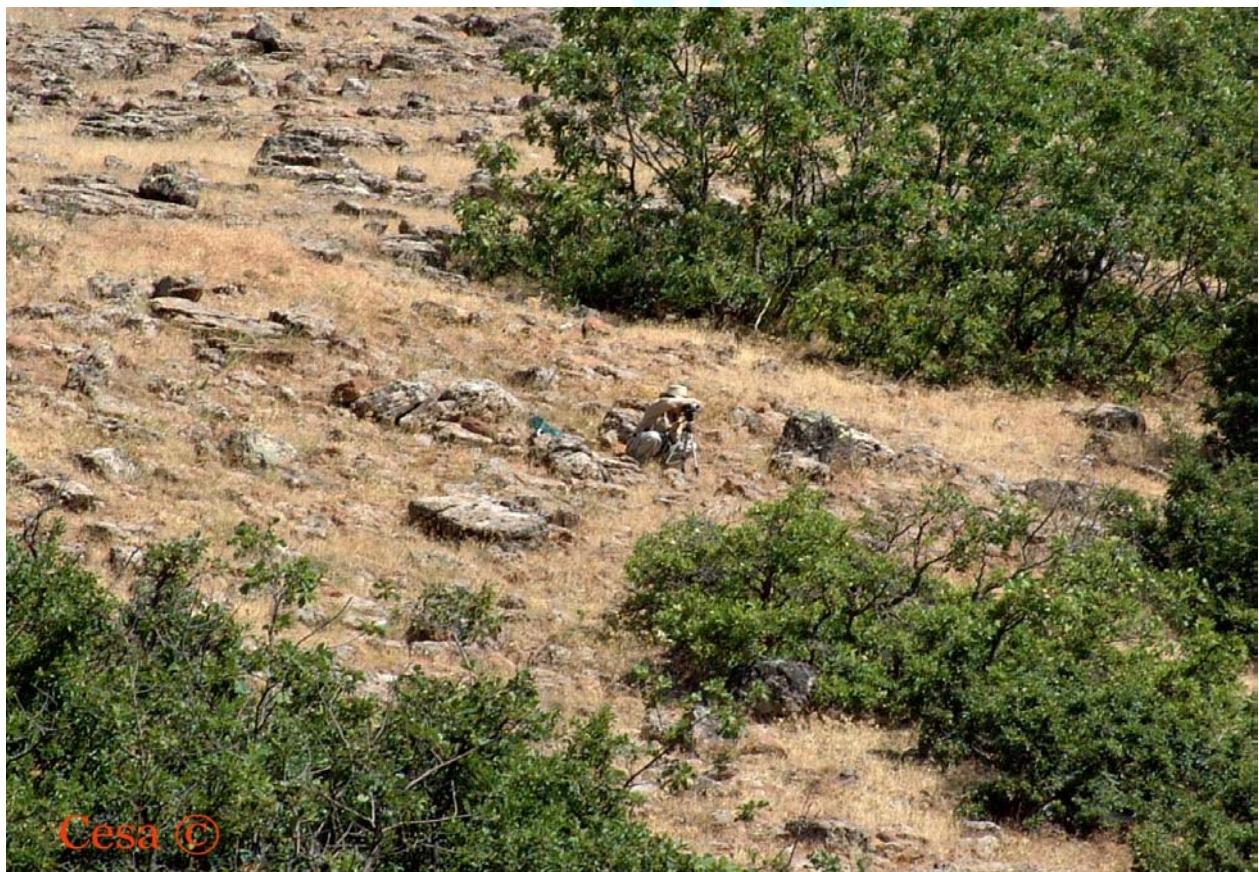


Fig. 14– Studying at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo A.Koçak (Cesa)



Fig. 15— A male of second generation of *Lycaena (Thersamonia) thersamon* (*Lycaenidae*) at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 16— A male of second generation of *Lycaena (Thersamonia) kefersteinii* (*Lycaenidae*) at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 17- A male of second generation of *Melitaea didyma* (Argynnidae) at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)

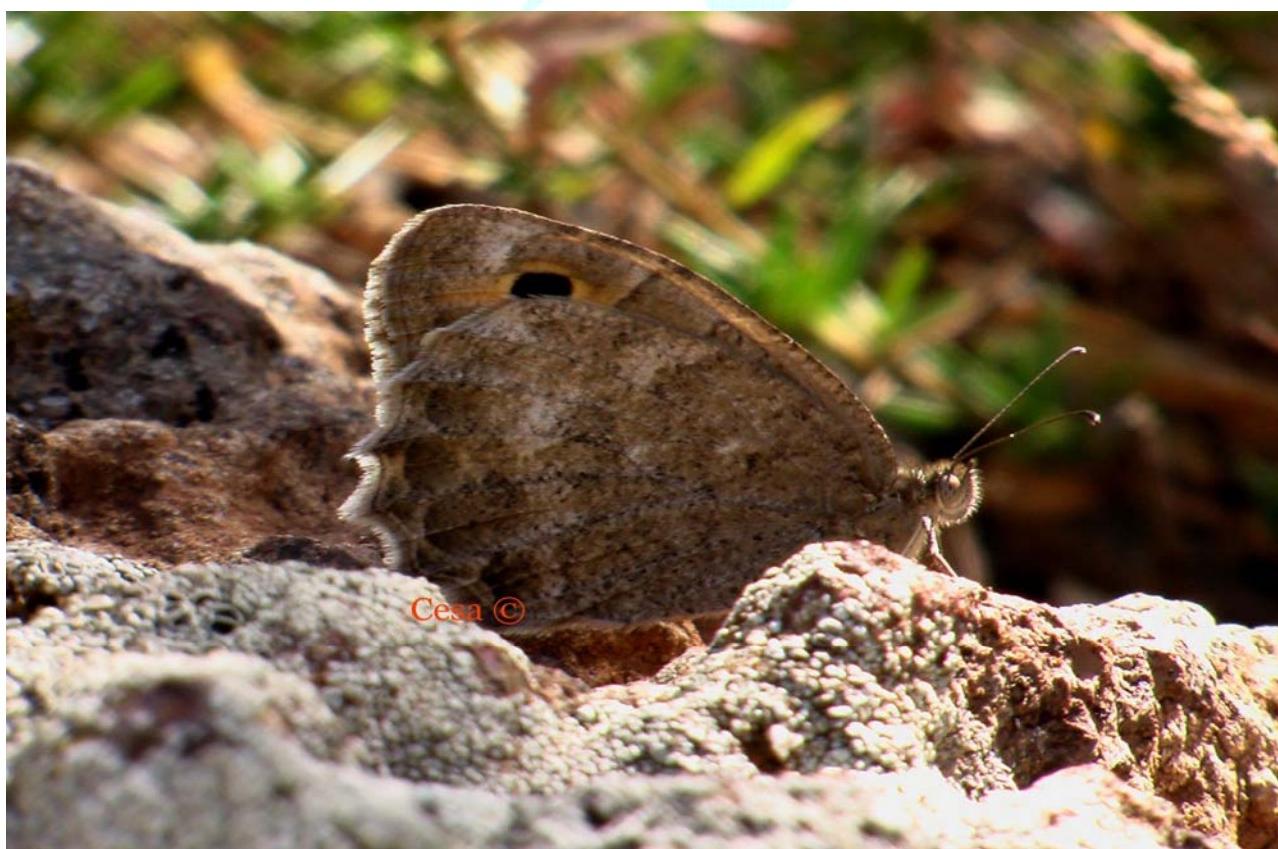


Fig. 18- *Pseudochazara pelopea* (Satyridae), a petrophil species with a prolonged annual generation at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 19—*Quercusia quercus* (*Lycaenidae*) at rest on an Oak leaf at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)



Fig. 20—*Paeonia* sp. (*Paeoniaceae*) in Oak woodland at Şeref Yaylaq, 1650m, Turkey: Bingöl Prov., Solhan, 26.7.2008 photo M.Kemal (Cesa)

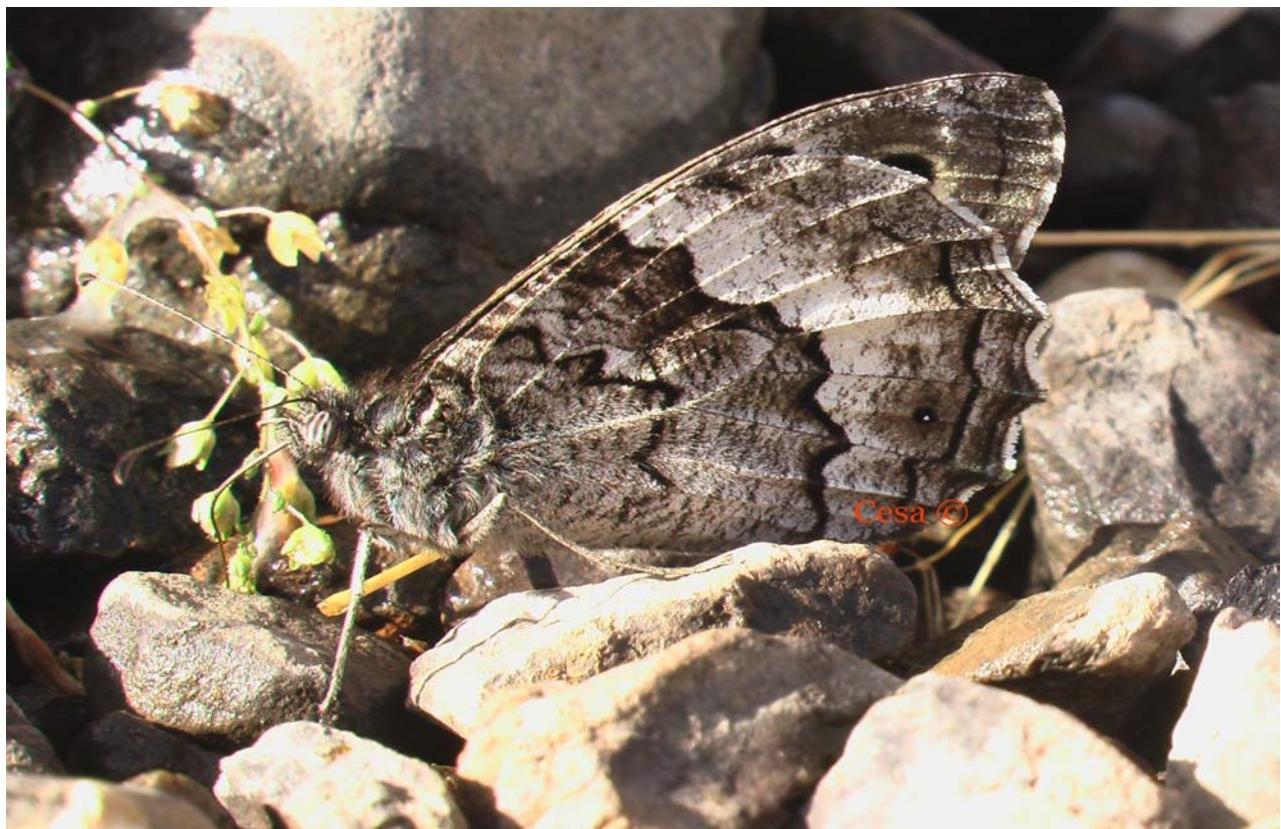


Fig. 21- A male of *Hipparchia syriaca* (Satyridae), sipping mineral water on the ground early in the morning. Turkey: Bingöl Prov., Solhan, Şeref Military Station, 1530m, 27.7.2008 photo M.Kemal (Cesa)



Fig. 22- A male of *Quercusia quercus* (Lycaenidae), sipping mineral water on the ground early in the morning. Turkey: Bingöl Prov., Solhan, Şeref Military Station, 1530m, 27.7.2008 photo M.Kemal (Cesa)



Fig. 23— Male and female in copula early in the morning. *Lythria purpuraria* (Geometridae). Turkey: Bingöl Prov., Solhan, Şeref Military Station, 1530m, 27.7.2008 photo M.Kemal (Cesa) - New to Bingöl Province!



Fig. 24— A full grown caterpillar of *Saturnia pyri* (Saturniidae) on *Prunus cerasus* tree (Rosaceae) Turkey: Bingöl Prov., Solhan, Şeref Military Station, 1530m, 27.7.2008 photo M.Kemal (Cesa) - New to Bingöl Province!



Fig. 25—*Eurythyrea quercus* (Buprestidae). Turkey: Bingöl Prov., Solhan, Şeref Military Station, 1530m, 27.7.2008 photo M.Kemal (Cesa)



Fig. 26—A male of *Mallosia imperatrix* (Cerambycidae). Turkey: Bingöl Prov., Kuruca Mountain, 2025m, 26.7.2008 photo M.Kemal (Cesa)



Fig. 27- A feeding male of *Chazara briseis* (Satyridae) on *Onopordum* flower (Asteraceae) and a flying *Mallosia imperatrix* (top right). Turkey: Bingöl Prov., Kuruca Mountain, 2025m, 26.7.2008 photo M.Kemal (Cesa)

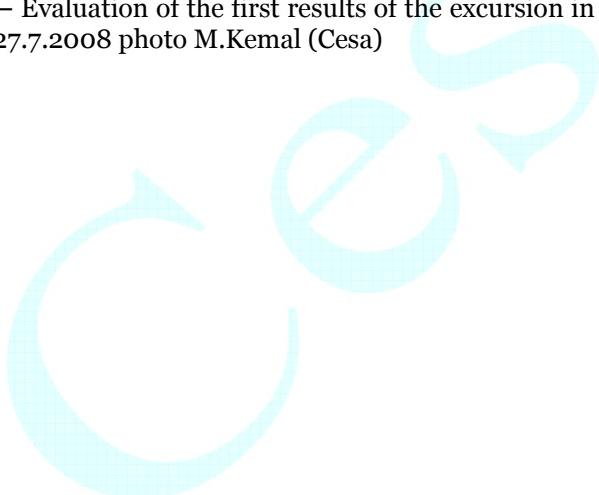


Fig. 28- Usual summer aspect of the steppes: Burnt biological richness of Turkey! Turkey: Bingöl Prov., Kuruca Mountain, 2025m, 26.7.2008 photo M.Kemal (Cesa)



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Fig. 29- Evaluation of the first results of the excursion in the Station. Turkey: Bingöl Prov., Şeref Military Station 27.7.2008 photo M.Kemal (Cesa)



Scientific Note

List of the Butterflies Observed around Dereköy (Kırklareli Province, Turkey)¹

Turgut Sarıgül² Vildan Bozacı³ Hidayet Akdemir⁴ Ufuk Karaca⁵
Olcay Yegin Gulten Yegin Bilal Degirmenci

The list presented is prepared by the authors, based upon their butterfly photographs taken in the natural environments around Dereköy (Kırklareli Province) in July of 2008.^{6,7,8}

Papilionidae

- 1. *Iphiclus podalirius* (Linnaeus, 1758) - Erik Kırlangışkuyruğu
- 2. *Papilio (s.str.) machaon* Linnaeus, 1758 – Kırlangışkuyruk

Pieridae

- 3. *Colias (Eriocolias) crocea* (Fourcroy, 1785) - Sarıazamet
- 4. *Leptidea sinapis* (Linnaeus, 1758) - Narinormanbeyazı
- 5. *Pieris (Artogeia) krueperi* Staudinger, 1860 - Krüper'in Beyazmeleği
- 6. *Pieris (Artogeia) pseudorapae* Verity, 1908 - Yalancı Beyazmelek
- 7. *Pieris (Artogeia) rapae* (Linnaeus, 1758) - Küçük Beyazmelek
- 8. *Pieris (s.str.) brassicae* (Linnaeus, 1758) - Büyük Beyazmelek
- 9. *Pontia edusa* (Fabricius, 1777) - Yeni Beneklimelek

Argynnidae (=Nymphalidae)

- 10. *Araschnia levana* (Linnaeus, 1758) - Isırgankeleeği

¹ This short scientific note is accepted for the publication, as it has important faunistical information about new and little known butterfly species for the fauna of Turkey [Notes of Editor: A.Ö.K].

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⁶ Identifications of the species were controlled by A.Ö.Koçak

⁷ The list of the scientific names re-arranged upon the last and revised publications on this subject. See **Koçak,A.Ö. & M.Kemal**, 2006, Checklist of Lepidoptera of Turkey. Cent. ent. Stud., Priamus Suppl. 1: 1-196. - **Koçak,A.Ö. & M.Kemal**, 2007, Revised and annotated checklist of the Lepidoptera of Turkey. Priamus Suppl. 8: 1-150, 2 Tables. [Notes of Editor: A.Ö.K]

⁸ The vernacular names of the butterflies were proposed for the first time and revised later in the following publications: **Koçak,A.Ö. & M.Kemal**, 2001, Türkiye kelebeklerinin anadillerdeki isimlerinin listesi. Cent. ent. Stud., Misc. Pap. 72/73: 1-15. - **Kemal,M. & A.Ö.Koçak**, 2007, Revised and expanded list of the vernacular names of the Lepidoptera in Turkish language. Cent. ent. Stud., Priamus 12 (4): 95-125 [Notes of Editor: A.Ö.K].

11. *Argynnис (Fabriciana) adippe* (Rottemburg, 1775) - Büyükkinci
12. *Argynnис (Pandoriana) pandora* ([Denis & Schiffermüller], 1775) - Bahadır
13. *Argynnис (s.str.) paphia* (Linnaeus, 1758) - Cengaver
14. *Brenthis daphne* (Bergsträsser, 1780) - Bögürhlen Brentisi
15. *Cynthia cardui* (Linnaeus, 1758) - Dikenkelebeği
16. *Inachis io* (Linnaeus, 1758) - Tavuskelebeği
17. *Issoria lathonia* (Linnaeus, 1758) - İspanyol Kraliçesi
18. *Limenitis (Azuritis) reducta* Staudinger, 1901 - Akdeniz Hanımeli kelebeği
19. *Melitaea (Cinclidia) (phoebe) phoebe* (Goeze, 1779) - Benekli Büyük İparhan
20. *Melitaea (Didymaeformis) didyma* (Esper, [1779]) - Benekli İparhan
21. *Melitaea (Didymaeformis) fascalis* (Fabricius, 1787) - Güzel İparhan
22. *Polygonia (Comma) c-album* (Linnaeus, 1758) - Yırtıkpırtık
23. *Vanessa atalanta* (Linnaeus, 1758) - Atalanta

Satyridae

24. *Aphantopus hyperantus* (Linnaeus, 1758) – Halkacık 9
25. *Arethusana arethusa* ([Denis & Schiffermüller], 1775) - Seyit
26. *Brintesia circe* (Fabricius, 1775) - Karamurat
27. *Coenonympha (s.str.) arcana* (Linnaeus, 1761) - Funda Zipzip Perisi
28. *Coenonympha (s.str.) pamphilus* (Linnaeus, 1758) - Küçük Zipzip Perisi
29. *Hipparchia (Neohipparchia) fatua* (Freyer, 1844) - Anadolu Karameleği
30. *Hipparchia (Neohipparchia) statilinus* (Hufnagel, 1766) - Ağaç Karameleği
31. *Kirinia (Melike) roxelana* (Cramer, [1777]) - Ağaç Esmeri
32. *Lasiommata megera* (Linnaeus, 1767) - Küçük Esmerboncuk
33. *Maniola (s.str.) jurtina* (Linnaeus, 1758) - Çayıresmeri
34. *Melanargia (s.str.) galathea* (Linnaeus, 1758) - Ormanmelikesi
35. *Minois dryas* (Scopoli, 1763) - Karahayalet
36. *Pararge aegeria* (Linnaeus, 1758) - Karanlık Orman Esmeri
37. *Pyronia tithonus* (Linnaeus, 1771) - Pironiya

Riodinidae

38. *Hamearis lucina* (Linnaeus, 1758) – İncilikelebek

Lycaenidae

39. *Celastrina argiolus* (Linnaeus, 1758) - Kutsalmavi
40. *Leptotes pirithous* (Linnaeus, 1767) - Mavizebra
41. *Lycaena (Lowenia) tityrus* (Poda, 1761) - İslibakırgüzelı
42. *Lycaena (Thersamolycaena) dispar* ([Haworth], 1802) - Büyükbakırgüzelı
43. *Lycaena (Thersamonia) thersamon* (Esper, [1784]) - Küçükatesgüzelı
44. *Lycaena (s.str.) phlaeas* (Linnaeus, 1761) - Beneklibakırgüzelı
45. *Plebejus (Lycaeides) idas* (Linnaeus, 1761) - Idasmavisi; Esmergöz
46. *Polyommatus (Aricia (Ultraaricia)) anteros* (Freyer, [1838]) - Çokgözlü Balkanmavisi
47. *Polyommatus (Aricia (s.str.)) agestis* ([Denis & Schiffermüller], 1775) - Çokgözlü Esmer
48. *Polyommatus (s.str. (Lysandra)) coridon* (Poda, 1761) - Çilli Çokgözlü
49. *Polyommatus (s.str. (Thersitesia)) thersites* (Canterer, [1835]) - Çokgözlü Menekşemavisi
50. *Polyommatus (s.str.) icarus* (Rottemburg, 1775) - Çokgözlü Mavi
51. *Tarucus (s.str.) balkanicus* (Freyer, [1843]) - Balkankaplanı
52. *Thecla betulae* (Linnaeus, 1758) – Huşgüzeli

⁹ *Aphantopus hyperantus* was recorded in Turkey in the year of 1862, around Bursa by J. Mann, an Austrian lepidopterist. As this record could not be confirmed by the authors for many years, in the modern publications the occurrence of this species in Turkish territories was omitted. The new record of *Aphantopus hyperantus* around Dereköy in Kırklareli Province is clearly based upon a native population; therefore it must be added to the butterfly fauna of Turkey as the 400th species [based upon the Info-system of the Cesa: <http://www.cesa-tr.org/Infos.htm>] [Notes of Editor: A.Ö.K]

Hesperiidae

- 53. *Carcharodus (s.str.) alceae* (Esper,[1780]) - Hatmi Zipzıpi
- 54. *Erynnis (s.str.) tages* (Linnaeus,1758) - Paslı Zipzıp
- 55. *Ochlodes venatus* (Bremer & Grey,[1852]) - Orman Zipzıpi
- 56. *Spialia (Neospialia) orbifer* (Hübner,[1823]) - Kızıl Zipzıp

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